



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

February 3, 2000

MEMORANDUM TO: Susan F. Shankman, Deputy Director  
Licensing and Inspection Directorate  
Spent Fuel Project Office, NMSS

FROM: Steven Baggett, Project Manager *SB*  
Licensing Section  
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF JANUARY 20, 2000, MEETING WITH TRANSNUCLEAR  
WEST INC., REGARDING PLANS TO USE A MODIFIED NUHOMS®  
STORAGE SYSTEM IN HIGH SEISMIC APPLICATIONS

On January 20, 2000, staff from the U.S. Nuclear Regulatory Commission's (NRC) Office of Nuclear Material Safety and Safeguards met with representatives from Transnuclear West Inc., (TN West) to discuss their plans regarding the modification of the NUHOMS® storage system for use in high seismic applications (NUHOMS® HI-Seismic). One such application is the storage of San Onofre Unit 1 reactor fuel in an independent spent fuel storage installation (ISFSI). Southern California Edison Company (SCE) was present to clarify its role in this application process. SCE will be a general licensed user of the NUHOMS® HI-Seismic cask design, if it is approved by NRC. Attachment 1 is the attendance list. A seismic specialist from the Office of Nuclear Reactor Regulation was also in attendance. The presentation was made without the use of handouts and was a follow-up to the November 1999 management meeting. The meeting was noticed on January 6, 2000.

The storage system will essentially be the same dry shielded canister (DSC) approved in the MP-187 transportation Certificate of Compliance No. 9255, except that an amendment to use either 304 or 316 stainless steel in the fabrication of the DSC will be necessary. A modified concrete horizontal storage module (HSM) designed to withstand the seismic conditions of 1.5g horizontal and 1g vertical was discussed. The proposed HSM is essentially a top and bottom concrete monolith held together by shear-keys and bolts. The freestanding HSM is narrower than its current approved parent. When installed on the pad, HSMs will be held together by shear-keys and strapping.

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Additional discussion focused on the following:

- ◆ Completely new application for the advanced NUHOMS® design
- ◆ Potential regulatory issues regarding the seismic criteria, including choice of analysis input parameters, soil structure modeling, and analysis approach
- ◆ SCE's need for typical reports to support its initiative to develop a generic seismic analysis to be used by industry
- ◆ Application to be submitted in August 2000
- ◆ NRC staff completing its technical evaluation in August 2001
- ◆ Issuance of a Certificate of Compliance in August 2002
- ◆ Future technical meetings

No proprietary information was disseminated, and no regulatory decisions were requested or made.

Docket Nos.: 72-1004, 72-41, 72-1029

Attachment: Attendance List

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- ◆ Completely new application for the advanced NUHMOS® design
- ◆ Potential regulatory issues regarding the seismic criteria, including choice of analysis input parameters, soil structure modeling and analysis approach
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Dockets	NRC File Center	PUBLIC	NMSS R/F	SFPO R/F
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OFC:	SFPO <i>S</i>	E	SFPO <i>T</i>	E	SFPO	<i>N</i>
NAME:	SBaggett		<i>W</i> harpe		CRC <i>Chappell</i>	
DATE:	2/2/00		2/03/00		2/3/00	

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**January 20, 2000, Meeting  
between the Nuclear Regulatory Commission and  
Transnuclear West Inc.**

**ATTENDANCE LIST**

<u>Name</u>	<u>Affiliation</u>
Wayne Hodges	NRC/NMSS/SFPO
Susan Shankman	NRC/NMSS/SFPO
Eric Leeds	NRC/NMSS/SFPO
Steven Baggett	NRC/NMSS/SFPO
David Tang	NRC/NMSS/SFPO
Henry Lee	NRC/NMSS/SFPO
Mahendra Shah	NRC/NMSS/SFPO
Goutam Bagchi	NRC/NRR/DE
Bill Huffman	NRC/NRR
Robert Grubb	Transnuclear West Inc.
Kyle Jones	Transnuclear West Inc.
Miguel Manrique	Transnuclear West Inc.
Robert Kennedy	Structural Mechanics Consulting
David Pilmer	Southern California Edison Co.
Michael Wharton	Southern California Edison Co.
Jorge Morales	Southern California Edison Co.
Torrey Yee	Southern California Edison Co.
Roger Johnson	PG&E
Steve Schulin	The IBEX Group